GAS LISTING /tmp/ccQtZW8E.s page 1

1 .file "hello.cpp"

2 .text

3 .Ltext0:

4 .section .rodata

7 \_ZStL19piecewise\_construct:

8 0000 00 .zero 1

9 .local \_ZStL8\_\_ioinit

10 .comm \_ZStL8\_\_ioinit,1,1

11 .LC0:

12 0001 48656C6C .string "Hello World"

12 6F20576F

12 726C6400

13 .text

14 .globl main

16 main:

17 .LFB1522:

18 .file 1 "hello.cpp"

1:hello.cpp \*\*\*\* //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

2:hello.cpp \*\*\*\* // Fichier: hello.cpp

3:hello.cpp \*\*\*\* //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

4:hello.cpp \*\*\*\*

5:hello.cpp \*\*\*\* #include <iostream>

6:hello.cpp \*\*\*\*

7:hello.cpp \*\*\*\* using namespace std;

8:hello.cpp \*\*\*\*

9:hello.cpp \*\*\*\* int main()

10:hello.cpp \*\*\*\* {

19 .loc 1 10 1

20 .cfi\_startproc

21 0000 F30F1EFA endbr64

22 0004 55 pushq %rbp

23 .cfi\_def\_cfa\_offset 16

24 .cfi\_offset 6, -16

25 0005 4889E5 movq %rsp, %rbp

26 .cfi\_def\_cfa\_register 6

11:hello.cpp \*\*\*\* cout << "Hello World" << endl;

27 .loc 1 11 17

28 0008 488D3500 leaq .LC0(%rip), %rsi

28 000000

29 000f 488D3D00 leaq \_ZSt4cout(%rip), %rdi

29 000000

30 0016 E8000000 call \_ZStlsISt11char\_traitsIcEERSt13basic\_ostreamIcT\_ES5\_PKc@PLT

30 00

31 001b 4889C2 movq %rax, %rdx

32 .loc 1 11 34

33 001e 488B0500 movq \_ZSt4endlIcSt11char\_traitsIcEERSt13basic\_ostreamIT\_T0\_ES6\_@GOTPCREL(%rip), %rax

33 000000

34 0025 4889C6 movq %rax, %rsi

35 0028 4889D7 movq %rdx, %rdi

36 002b E8000000 call \_ZNSolsEPFRSoS\_E@PLT

36 00

12:hello.cpp \*\*\*\* return 0;

37 .loc 1 12 16

38 0030 B8000000 movl $0, %eax

38 00

13:hello.cpp \*\*\*\* }

39 .loc 1 13 1

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40 0035 5D popq %rbp

41 .cfi\_def\_cfa 7, 8

42 0036 C3 ret

43 .cfi\_endproc

44 .LFE1522:

47 \_Z41\_\_static\_initialization\_and\_destruction\_0ii:

48 .LFB2011:

49 .loc 1 13 1

50 .cfi\_startproc

51 0037 F30F1EFA endbr64

52 003b 55 pushq %rbp

53 .cfi\_def\_cfa\_offset 16

54 .cfi\_offset 6, -16

55 003c 4889E5 movq %rsp, %rbp

56 .cfi\_def\_cfa\_register 6

57 003f 4883EC10 subq $16, %rsp

58 0043 897DFC movl %edi, -4(%rbp)

59 0046 8975F8 movl %esi, -8(%rbp)

60 .loc 1 13 1

61 0049 837DFC01 cmpl $1, -4(%rbp)

62 004d 7532 jne .L5

63 .loc 1 13 1 is\_stmt 0 discriminator 1

64 004f 817DF8FF cmpl $65535, -8(%rbp)

64 FF0000

65 0056 7529 jne .L5

66 .file 2 "/usr/include/c++/9/iostream"

1:/usr/include/c++/9/iostream \*\*\*\* // Standard iostream objects -\*- C++ -\*-

2:/usr/include/c++/9/iostream \*\*\*\*

3:/usr/include/c++/9/iostream \*\*\*\* // Copyright (C) 1997-2019 Free Software Foundation, Inc.

4:/usr/include/c++/9/iostream \*\*\*\* //

5:/usr/include/c++/9/iostream \*\*\*\* // This file is part of the GNU ISO C++ Library. This library is free

6:/usr/include/c++/9/iostream \*\*\*\* // software; you can redistribute it and/or modify it under the

7:/usr/include/c++/9/iostream \*\*\*\* // terms of the GNU General Public License as published by the

8:/usr/include/c++/9/iostream \*\*\*\* // Free Software Foundation; either version 3, or (at your option)

9:/usr/include/c++/9/iostream \*\*\*\* // any later version.

10:/usr/include/c++/9/iostream \*\*\*\*

11:/usr/include/c++/9/iostream \*\*\*\* // This library is distributed in the hope that it will be useful,

12:/usr/include/c++/9/iostream \*\*\*\* // but WITHOUT ANY WARRANTY; without even the implied warranty of

13:/usr/include/c++/9/iostream \*\*\*\* // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

14:/usr/include/c++/9/iostream \*\*\*\* // GNU General Public License for more details.

15:/usr/include/c++/9/iostream \*\*\*\*

16:/usr/include/c++/9/iostream \*\*\*\* // Under Section 7 of GPL version 3, you are granted additional

17:/usr/include/c++/9/iostream \*\*\*\* // permissions described in the GCC Runtime Library Exception, version

18:/usr/include/c++/9/iostream \*\*\*\* // 3.1, as published by the Free Software Foundation.

19:/usr/include/c++/9/iostream \*\*\*\*

20:/usr/include/c++/9/iostream \*\*\*\* // You should have received a copy of the GNU General Public License and

21:/usr/include/c++/9/iostream \*\*\*\* // a copy of the GCC Runtime Library Exception along with this program;

22:/usr/include/c++/9/iostream \*\*\*\* // see the files COPYING3 and COPYING.RUNTIME respectively. If not, see

23:/usr/include/c++/9/iostream \*\*\*\* // <http://www.gnu.org/licenses/>.

24:/usr/include/c++/9/iostream \*\*\*\*

25:/usr/include/c++/9/iostream \*\*\*\* /\*\* @file include/iostream

26:/usr/include/c++/9/iostream \*\*\*\* \* This is a Standard C++ Library header.

27:/usr/include/c++/9/iostream \*\*\*\* \*/

28:/usr/include/c++/9/iostream \*\*\*\*

29:/usr/include/c++/9/iostream \*\*\*\* //

30:/usr/include/c++/9/iostream \*\*\*\* // ISO C++ 14882: 27.3 Standard iostream objects

31:/usr/include/c++/9/iostream \*\*\*\* //

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32:/usr/include/c++/9/iostream \*\*\*\*

33:/usr/include/c++/9/iostream \*\*\*\* #ifndef \_GLIBCXX\_IOSTREAM

34:/usr/include/c++/9/iostream \*\*\*\* #define \_GLIBCXX\_IOSTREAM 1

35:/usr/include/c++/9/iostream \*\*\*\*

36:/usr/include/c++/9/iostream \*\*\*\* #pragma GCC system\_header

37:/usr/include/c++/9/iostream \*\*\*\*

38:/usr/include/c++/9/iostream \*\*\*\* #include <bits/c++config.h>

39:/usr/include/c++/9/iostream \*\*\*\* #include <ostream>

40:/usr/include/c++/9/iostream \*\*\*\* #include <istream>

41:/usr/include/c++/9/iostream \*\*\*\*

42:/usr/include/c++/9/iostream \*\*\*\* namespace std \_GLIBCXX\_VISIBILITY(default)

43:/usr/include/c++/9/iostream \*\*\*\* {

44:/usr/include/c++/9/iostream \*\*\*\* \_GLIBCXX\_BEGIN\_NAMESPACE\_VERSION

45:/usr/include/c++/9/iostream \*\*\*\*

46:/usr/include/c++/9/iostream \*\*\*\* /\*\*

47:/usr/include/c++/9/iostream \*\*\*\* \* @name Standard Stream Objects

48:/usr/include/c++/9/iostream \*\*\*\* \*

49:/usr/include/c++/9/iostream \*\*\*\* \* The &lt;iostream&gt; header declares the eight <em>standard stream

50:/usr/include/c++/9/iostream \*\*\*\* \* objects</em>. For other declarations, see

51:/usr/include/c++/9/iostream \*\*\*\* \* http://gcc.gnu.org/onlinedocs/libstdc++/manual/io.html

52:/usr/include/c++/9/iostream \*\*\*\* \* and the @link iosfwd I/O forward declarations @endlink

53:/usr/include/c++/9/iostream \*\*\*\* \*

54:/usr/include/c++/9/iostream \*\*\*\* \* They are required by default to cooperate with the global C

55:/usr/include/c++/9/iostream \*\*\*\* \* library's @c FILE streams, and to be available during program

56:/usr/include/c++/9/iostream \*\*\*\* \* startup and termination. For more information, see the section of the

57:/usr/include/c++/9/iostream \*\*\*\* \* manual linked to above.

58:/usr/include/c++/9/iostream \*\*\*\* \*/

59:/usr/include/c++/9/iostream \*\*\*\* //@{

60:/usr/include/c++/9/iostream \*\*\*\* extern istream cin; /// Linked to standard input

61:/usr/include/c++/9/iostream \*\*\*\* extern ostream cout; /// Linked to standard output

62:/usr/include/c++/9/iostream \*\*\*\* extern ostream cerr; /// Linked to standard error (unbuffered)

63:/usr/include/c++/9/iostream \*\*\*\* extern ostream clog; /// Linked to standard error (buffered)

64:/usr/include/c++/9/iostream \*\*\*\*

65:/usr/include/c++/9/iostream \*\*\*\* #ifdef \_GLIBCXX\_USE\_WCHAR\_T

66:/usr/include/c++/9/iostream \*\*\*\* extern wistream wcin; /// Linked to standard input

67:/usr/include/c++/9/iostream \*\*\*\* extern wostream wcout; /// Linked to standard output

68:/usr/include/c++/9/iostream \*\*\*\* extern wostream wcerr; /// Linked to standard error (unbuffered)

69:/usr/include/c++/9/iostream \*\*\*\* extern wostream wclog; /// Linked to standard error (buffered)

70:/usr/include/c++/9/iostream \*\*\*\* #endif

71:/usr/include/c++/9/iostream \*\*\*\* //@}

72:/usr/include/c++/9/iostream \*\*\*\*

73:/usr/include/c++/9/iostream \*\*\*\* // For construction of filebuffers for cout, cin, cerr, clog et. al.

74:/usr/include/c++/9/iostream \*\*\*\* static ios\_base::Init \_\_ioinit;

67 .loc 2 74 25 is\_stmt 1

68 0058 488D3D00 leaq \_ZStL8\_\_ioinit(%rip), %rdi

68 000000

69 005f E8000000 call \_ZNSt8ios\_base4InitC1Ev@PLT

69 00

70 0064 488D1500 leaq \_\_dso\_handle(%rip), %rdx

70 000000

71 006b 488D3500 leaq \_ZStL8\_\_ioinit(%rip), %rsi

71 000000

72 0072 488B0500 movq \_ZNSt8ios\_base4InitD1Ev@GOTPCREL(%rip), %rax

72 000000

73 0079 4889C7 movq %rax, %rdi

74 007c E8000000 call \_\_cxa\_atexit@PLT

74 00

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75 .L5:

76 .loc 1 13 1

77 0081 90 nop

78 0082 C9 leave

79 .cfi\_def\_cfa 7, 8

80 0083 C3 ret

81 .cfi\_endproc

82 .LFE2011:

85 \_GLOBAL\_\_sub\_I\_main:

86 .LFB2012:

87 .loc 1 13 1

88 .cfi\_startproc

89 0084 F30F1EFA endbr64

90 0088 55 pushq %rbp

91 .cfi\_def\_cfa\_offset 16

92 .cfi\_offset 6, -16

93 0089 4889E5 movq %rsp, %rbp

94 .cfi\_def\_cfa\_register 6

95 .loc 1 13 1

96 008c BEFFFF00 movl $65535, %esi

96 00

97 0091 BF010000 movl $1, %edi

97 00

98 0096 E89CFFFF call \_Z41\_\_static\_initialization\_and\_destruction\_0ii

98 FF

99 009b 5D popq %rbp

100 .cfi\_def\_cfa 7, 8

101 009c C3 ret

102 .cfi\_endproc

103 .LFE2012:

105 .section .init\_array,"aw"

106 .align 8

107 0000 00000000 .quad \_GLOBAL\_\_sub\_I\_main

107 00000000

108 .text

109 .Letext0:

110 .file 3 "/usr/include/c++/9/cwchar"

111 .file 4 "/usr/include/c++/9/new"

112 .file 5 "/usr/include/c++/9/bits/exception\_ptr.h"

113 .file 6 "/usr/include/c++/9/type\_traits"

114 .file 7 "/usr/include/x86\_64-linux-gnu/c++/9/bits/c++config.h"

115 .file 8 "/usr/include/c++/9/bits/cpp\_type\_traits.h"

116 .file 9 "/usr/include/c++/9/bits/stl\_pair.h"

117 .file 10 "/usr/include/c++/9/debug/debug.h"

118 .file 11 "/usr/include/c++/9/bits/char\_traits.h"

119 .file 12 "/usr/include/c++/9/cstdint"

120 .file 13 "/usr/include/c++/9/clocale"

121 .file 14 "/usr/include/c++/9/cstdlib"

122 .file 15 "/usr/include/c++/9/cstdio"

123 .file 16 "/usr/include/c++/9/bits/basic\_string.h"

124 .file 17 "/usr/include/c++/9/system\_error"

125 .file 18 "/usr/include/c++/9/bits/ios\_base.h"

126 .file 19 "/usr/include/c++/9/cwctype"

127 .file 20 "/usr/include/c++/9/iosfwd"

128 .file 21 "/usr/include/c++/9/bits/predefined\_ops.h"

129 .file 22 "/usr/include/c++/9/ext/new\_allocator.h"

130 .file 23 "/usr/include/c++/9/ext/numeric\_traits.h"

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131 .file 24 "/usr/lib/gcc/x86\_64-linux-gnu/9/include/stddef.h"

132 .file 25 "<built-in>"

133 .file 26 "/usr/include/x86\_64-linux-gnu/bits/types/wint\_t.h"

134 .file 27 "/usr/include/x86\_64-linux-gnu/bits/types/\_\_mbstate\_t.h"

135 .file 28 "/usr/include/x86\_64-linux-gnu/bits/types/mbstate\_t.h"

136 .file 29 "/usr/include/x86\_64-linux-gnu/bits/types/\_\_FILE.h"

137 .file 30 "/usr/include/x86\_64-linux-gnu/bits/types/struct\_FILE.h"

138 .file 31 "/usr/include/x86\_64-linux-gnu/bits/types/FILE.h"

139 .file 32 "/usr/include/wchar.h"

140 .file 33 "/usr/include/x86\_64-linux-gnu/bits/types/struct\_tm.h"

141 .file 34 "/usr/include/x86\_64-linux-gnu/bits/types.h"

142 .file 35 "/usr/include/x86\_64-linux-gnu/bits/stdint-intn.h"

143 .file 36 "/usr/include/x86\_64-linux-gnu/bits/stdint-uintn.h"

144 .file 37 "/usr/include/stdint.h"

145 .file 38 "/usr/include/locale.h"

146 .file 39 "/usr/include/time.h"

147 .file 40 "/usr/include/x86\_64-linux-gnu/c++/9/bits/atomic\_word.h"

148 .file 41 "/usr/include/stdlib.h"

149 .file 42 "/usr/include/x86\_64-linux-gnu/bits/types/\_\_fpos\_t.h"

150 .file 43 "/usr/include/stdio.h"

151 .file 44 "/usr/include/x86\_64-linux-gnu/bits/sys\_errlist.h"

152 .file 45 "/usr/include/errno.h"

153 .file 46 "/usr/include/x86\_64-linux-gnu/bits/wctype-wchar.h"

154 .file 47 "/usr/include/wctype.h"

8191 .section .note.gnu.property,"a"

8192 .align 8

8193 0000 04000000 .long 1f - 0f

8194 0004 10000000 .long 4f - 1f

8195 0008 05000000 .long 5

8196 0:

8197 000c 474E5500 .string "GNU"

8198 1:

8199 .align 8

8200 0010 020000C0 .long 0xc0000002

8201 0014 04000000 .long 3f - 2f

8202 2:

8203 0018 03000000 .long 0x3

8204 3:

8205 001c 00000000 .align 8

8206 4:

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DEFINED SYMBOLS

\*ABS\*:0000000000000000 hello.cpp

/tmp/ccQtZW8E.s:7 .rodata:0000000000000000 \_ZStL19piecewise\_construct

.bss:0000000000000000 \_ZStL8\_\_ioinit

/tmp/ccQtZW8E.s:16 .text:0000000000000000 main

/tmp/ccQtZW8E.s:47 .text:0000000000000037 \_Z41\_\_static\_initialization\_and\_destruction\_0ii

/tmp/ccQtZW8E.s:85 .text:0000000000000084 \_GLOBAL\_\_sub\_I\_main

UNDEFINED SYMBOLS

\_ZSt4cout

\_GLOBAL\_OFFSET\_TABLE\_

\_ZStlsISt11char\_traitsIcEERSt13basic\_ostreamIcT\_ES5\_PKc

\_ZSt4endlIcSt11char\_traitsIcEERSt13basic\_ostreamIT\_T0\_ES6\_

\_ZNSolsEPFRSoS\_E

\_ZNSt8ios\_base4InitC1Ev

\_\_dso\_handle

\_ZNSt8ios\_base4InitD1Ev

\_\_cxa\_atexit